

ACADEMIC ADVISING

Partnering with students to successfully navigate college

Location: Main Hall 208

Phone: 719.255.3260

Website: [Academic Advising](http://www.uccs.edu/academic-advising)

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Current UCCS Students

- Appointments: www.uccs.edu/advising/current-students

Prospective Students: www.uccs.edu/admissions/contact

GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements

- 127 credit hours
- 2.0 CU cumulative GPA
- Residency: Last 30 credit hours of degree must be completed while registered in the College Engineering & Applied Science at UCCS

Student Responsibilities

Students are required to know and follow:

- All academic policies set forth by the University, College, and academic department in the UCCS Catalog: catalog.uccs.edu
- All course prerequisites designated by the University. Failure to meet course prerequisites may result in an administrative drop of the course from a student's schedule. See degree audit for course prerequisites within the academic major.

DEGREE REQUIREMENTS

Explore Mechanical Engineering: [Mechanical and Aerospace Engineering- Bachelor of Science in Mechanical Engineering | College of Engineering and Applied Science \(uccs.edu\)](http://www.uccs.edu/mechanical-engineering)

Major Requirements			
Mechanical Engineering Core Courses (60 hours)	Course/Area	Course Title	Credit Hours
<ul style="list-style-type: none"> A minimum GPA of 2.0 must be maintained on all MAE course work. <p><i>You must be admitted into the College of Engineering in order to take any MAE coursework.</i></p>	MAE 1502 <i>or</i> MAE 1602	Principles of Mechanical Engineering <i>or</i> Principles of Aerospace Engineering	3
	MAE 1503	Intro to Engineering Design	3
	MAE 2055	Mech-Etronics I	4
	MAE 2103	Statics	3
	MAE 2104	Dynamics	3
	MAE 2200	Materials Engineering	3
	MAE 2301	Engineering Thermodynamics I	3
	MAE 3005	Engineering Measurements Lab	3
	MAE 3130	Fluid Mechanics	4
	MAE 3201	Mechanics of Materials	3
	MAE 3302	Engineering Thermodynamics II	3
	MAE 3401	Modeling & Simulation of Dynamic Systems	3
	MAE 3501	Machine Design I	3
	MAE 4000	Mechanical and Aerospace Engineering Seminar	1
	MAE 4020	Numerical Methods with MATLAB	3
	MAE 4120	Machine Design II	3
	MAE 4310	Heat Transfer	4
	MAE 4421	Automatic Control of Aerospace & Mechanical Systems	3
	MAE 4510	Engineering Design I (<i>fall only</i>)	2
	MAE 4511	Engineering Design II (<i>spring only</i>)	3
Technical Electives (12 hours) NOTE: MAE 3342 Engineering Economy can be counted as a business OR a technical elective.	Complete 12 credit hours of upper-division (3000+ level) technical electives. <ul style="list-style-type: none"> 6 hours must be 4000-level 6 hours must be from MAE courses Courses from the following disciplines may be used for technical electives: Computer Science, Electrical Engineering, Mechanical Engineering, Math (with at least MATH 1350 as a prerequisite), Physics (with at least PES 1110 or MATH 1350 as a prerequisite), PES 2130 		12
Computing Course (3 hours)	MAE 1090	Introduction to Structured Programming	3
Business Courses (6 hours)	ENGR 3040	Engineering Ethics	3
	Business Elective	Complete one course from the following: BLAW 2000, MAE 3342, MKTG 3000, MGMT 3300	3

General Education and Elective Requirements

Core Writing Requirement (6 hours)	<ul style="list-style-type: none"> ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>) OR ENGL 1410 TCID 2090 Writing Portfolio – PORT 3000 (0 credits) or PORT 4000 (1 credit) or alternative – See Degree Audit 																				
Mathematics (18 hours)	<ul style="list-style-type: none"> MATH 1350 MATH 1360 MATH 2350 MATH 3130 MATH 3400 																				
Basic Science (13 hours)	<ul style="list-style-type: none"> CHEM 1401/1402 PES 1110 PES 1120 																				
Compass Curriculum (9 hours)	<table> <tr> <th>Component</th><th>Course</th></tr> <tr> <td>Gateway Program Seminar</td><td>GPS 1010 (counts towards HUM/SS Electives)</td></tr> <tr> <td>Explore – Arts, Humanities and Cultures</td><td>See Degree Audit (counts towards HUM/SS Electives)</td></tr> <tr> <td>Explore – Society, Behavior and Health</td><td>See Degree Audit (counts towards HUM/SS Electives)</td></tr> <tr> <td>Explore – Physical and Natural World</td><td>PES 1110</td></tr> <tr> <td>Navigate</td><td>ENGR 3040</td></tr> <tr> <td>Summit</td><td>MAE 4511</td></tr> <tr> <td>Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i></td><td> <ul style="list-style-type: none"> MAE 3005 MAE 3130 </td></tr> <tr> <td>Inclusiveness</td><td>MAE 1503</td></tr> <tr> <td>Sustainability</td><td>MAE 3302</td></tr> </table>	Component	Course	Gateway Program Seminar	GPS 1010 (counts towards HUM/SS Electives)	Explore – Arts, Humanities and Cultures	See Degree Audit (counts towards HUM/SS Electives)	Explore – Society, Behavior and Health	See Degree Audit (counts towards HUM/SS Electives)	Explore – Physical and Natural World	PES 1110	Navigate	ENGR 3040	Summit	MAE 4511	Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> MAE 3005 MAE 3130 	Inclusiveness	MAE 1503	Sustainability	MAE 3302
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FOUR-YEAR DEGREE PLAN

Please note that this is an *example* degree program and your program may vary. **Students are responsible for completing all course prerequisites.**

Year One	✓	FALL	Hours	✓	SPRING	Hours
		MAE 1502	3		MAE 1503	3
		MATH 1350	4		MATH 1360	4
		GPS 1010	3		PES 1120	4
		ENGL 1310	3		CHEM 1401	4
		PES 1110	4		CHEM 1402	1
		TOTAL	17		TOTAL	16

Year Two	✓	FALL	Hours	✓	SPRING	Hours
		MAE 1090	3		MAE 2104	3
		MAE 2103	3		MAE 2301	3
		MAE 2055	4		MATH 3130	3
		MAE 2200	3		MATH 3400	3
		MATH 2350	4		TCID 2090	3
		TOTAL	17		TOTAL	15

Year Three	✓	FALL	Hours	✓	SPRING	Hours
		MAE 3005	3		MAE 3130	4
		MAE 3201	3		MAE 3501	3
		MAE 3302	3		MAE 4421	3
		MAE 3401	3		Technical Elective	3
		MAE 4020	3		Explore – Society, Behavior, and Health course	3
		TOTAL	15		PORT 3000	0
					TOTAL	16

Year Four	✓	FALL	Hours	✓	SPRING	Hours
		MAE 4000	1		MAE 4511 (<i>spring only</i>)	3
		MAE 4120	3		Technical Elective	3
		MAE 4310	4		Technical Elective	3
		MAE 4510 (<i>fall only</i>)	2		Explore – Arts, Humanities & Cultures course	3
		Technical Elective	3		Business Elective	3
		ENGR 3040	3			
		TOTAL	16		TOTAL	15